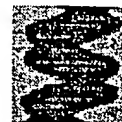


ATTACHMENT II

Gene Detail



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Gene Information

Gene ID: 396578 Template Count: 6 Seq Count: 557 Clone Count: 483
Top Hit ID: g180198 Hit Species: Homo sapiens
Hit Type: Exact E-Value: 0.0e+00 Pct ID: 99

Gene Description: Human carcinoembryonic antigen mRNA.

Genomic Data

Templates

	Template ID	Template Description	Top Hit ID	Hit Species
<input checked="" type="checkbox"/>	<u>396578.12</u>	Human carcinoembryonic antigen mRNA.	<u>g180198</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>396578.6</u>	Human BGP gene for biliary glycoprotein,	<u>g29447</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>396578.10</u>	Human carcinoembryonic antigen (CEA) gen	<u>g180206</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>396578.15</u>	Human carcinoembryonic antigen mRNA (CEA	<u>g180222</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>396578.2</u>	Human carcinoembryonic antigen mRNA.	<u>g180198</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>396578.14</u>	Human carcinoembryonic antigen (CEA) gen	<u>g180208</u>	Homo sapien

Submit template IDs to

Protein Function

Function hierarchy

Adhesion and molecular recognition

Adhesion

Ig superfamily

Localized and structural proteins

Membrane

Peripheral and anchored membrane proteins

Tissue Distribution

<u>Tissue Category</u>	<u>Clone Count</u>	<u>Found in</u>	<u>Abs Abund</u>	<u>Pct Abund</u>	<u>Pct Spec</u>
Cardiovascular System	266190	<u>0/68</u>	0	0.0000	0.00
Connective Tissue	144645	<u>1/47</u>	1	0.0007	0.64
Digestive System	501101	<u>61/148</u>	342	0.0682	62.17
Embryonic Structures	106713	<u>0/21</u>	0	0.0000	0.00
Endocrine System	225386	<u>1/53</u>	1	0.0004	0.36
Exocrine Glands	254635	<u>2/64</u>	3	0.0012	1.09
Genitalia, Female	427284	<u>8/106</u>	17	0.0040	3.65
Genitalia, Male	448207	<u>2/114</u>	5	0.0011	1.00
Germ Cells	38282	<u>0/5</u>	0	0.0000	0.00
Hemic and Immune System	680277	<u>4/159</u>	49	0.0072	6.56
Liver	109378	<u>1/35</u>	2	0.0018	1.64
Musculoskeletal System	159280	<u>0/47</u>	0	0.0000	0.00
Nervous System	955753	<u>0/198</u>	0	0.0000	0.00
Pancreas	110207	<u>4/24</u>	26	0.0236	21.51
Respiratory System	390086	<u>4/93</u>	6	0.0015	1.37
Sense Organs	19256	<u>0/8</u>	0	0.0000	0.00
Skin	72292	<u>0/15</u>	0	0.0000	0.00
Stomatognathic System	12923	<u>0/10</u>	0	0.0000	0.00
Unclassified/Mixed	120926	<u>0/13</u>	0	0.0000	0.00
Urinary Tract	279062	<u>0/64</u>	0	0.0000	0.00
Totals	5321883	<u>88/1292</u>	452	0.0091	100.00

Requested by: LG051_092000_GOLD_RO on Thu Sep 28 14:59:30 2000





Gene Detail



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Gene Information

Gene ID: 1383133 Template Count: 17 Seq Count: 2876 Clone Count: 279
Top Hit ID: g35740 Hit Species: Homo sapiens
Hit Type: Exact E-Value: 0.0e+00 Pct ID: 99

Gene Description: Human mRNA for prostate specific antigen.

[Genomic Data](#)

Templates

	<u>Template ID</u>	<u>Template Description</u>	<u>Top Hit ID</u>	<u>Hit Species</u>
<input checked="" type="checkbox"/>	<u>1383133.7</u>	Human mRNA for prostate specific antigen	<u>g35740</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>1383133.17</u>	Human mRNA for prostate specific antigen	<u>g35740</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>1383133.8</u>	Human mRNA for prostate specific antigen	<u>g35740</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>1383133.16</u>	Human prostate specific antigen (PA) gen	<u>g189525</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>1383133.13</u>	Human mRNA for prostate specific antigen	<u>g35740</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>1383133.2</u>	Human PSA gene for prostate specific ant	<u>g35730</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>1383133.9</u>	Human prostate-specific antigen (PA) gen	<u>g341200</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>1383133.11</u>	Human mRNA for prostate specific antigen	<u>g35720</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>1383133.14</u>	Human mRNA for prostate specific antigen	<u>g35740</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>1383133.12</u>	Human prostate specific antigen gene, co	<u>g190552</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>1383133.15</u>	Human prostate specific antigen gene, co	<u>g190552</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>1383133.10</u>	Human prostate specific antigen gene, co	<u>g190552</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>1383133.1</u>	Human prostate specific antigen (PA) gen	<u>g189523</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>1383133.3</u>	Human prostate specific antigen (PA) gen	<u>g189529</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>1383133.4</u>	Human mRNA for prostate specific antigen	<u>g35740</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>1383133.5</u>	Human mRNA for prostate specific antigen	<u>g35720</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>1383133.6</u>	Human mRNA for prostate specific antigen	<u>g35740</u>	Homo sapien

[Uncheck All](#)

Submit template IDs to [BLAST2](#)

Protein Function**Enzyme hierarchy**

Hydrolases

Acting on peptide bonds (peptide hydrolases)

Serine endopeptidases

Function hierarchy

Protein modification and maintenance

Proteases

Serine proteases

Localized and structural proteins

Secreted and extracellular

Other secreted and extracellular

Pathway hierarchy

Metabolism

Protein metabolism

Post-translation

Protein cleavage and degradation

Tissue Distribution

<u>Tissue Category</u>	<u>Clone Count</u>	<u>Found in</u>	<u>Abs Abund</u>	<u>Pct Abund</u>	<u>Pct Spec</u>
Cardiovascular System	266190	<u>0/68</u>	0	0.0000	0.00
Connective Tissue	144645	<u>1/47</u>	4	0.0028	0.45
Digestive System	501101	<u>6/148</u>	6	0.0012	0.19
Embryonic Structures	106713	<u>1/21</u>	1	0.0009	0.14
Endocrine System	225386	<u>1/53</u>	1	0.0004	0.06
Exocrine Glands	254635	<u>3/64</u>	4	0.0016	0.26
Genitalia, Female	427284	<u>1/106</u>	1	0.0002	0.03
Genitalia, Male	448207	<u>65/114</u>	2728	0.6086	97.07
Germ Cells	38282	<u>0/5</u>	0	0.0000	0.00
Hemic and Immune System	680277	<u>1/159</u>	5	0.0007	0.11
Liver	109378	<u>0/35</u>	0	0.0000	0.00
Musculoskeletal System	159280	<u>2/47</u>	13	0.0082	1.31
Nervous System	955753	<u>5/198</u>	6	0.0006	0.10
Pancreas	110207	<u>1/24</u>	2	0.0018	0.29
Respiratory System	390086	<u>0/93</u>	0	0.0000	0.00
Sense Organs	19256	<u>0/8</u>	0	0.0000	0.00
Skin	72292	<u>0/15</u>	0	0.0000	0.00
Stomatognathic System	12923	<u>0/10</u>	0	0.0000	0.00
Unclassified/Mixed	120926	<u>0/13</u>	0	0.0000	0.00
Urinary Tract	279062	<u>0/64</u>	0	0.0000	0.00
Totals	5321883	<u>87/1292</u>	2771	0.0524	100.00

Requested by: LG051_092000_GOLD_RO on Thu Sep 28 15:06:43 2000